

# Felix Tiet

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## Education

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### Vanderbilt University

B.S., Computer Science & B.E., Chemical Engineering

Nashville, TN

August 2015 - May 2019

### Relevant Coursework (*currently enrolled*)

Intermediate Software Design

Computer Organization

Algorithms

Program Design and Data Structures

Discrete Structures

Web-based System Architecture

Principles of Operating Systems

Programming Languages

Principles of Software Engineering

## Work Experience

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### Vanderbilt Multiscale Modeling and Simulation Research Facility

Undergraduate Research Assistant

Nashville, TN

May 2016 - Present

- Investigating energy storage systems and ionic liquids through Molecular Dynamics simulations
- Building and analyzing simulations using software packages such as GROMACS among others
- Automating MD simulations and analysis by developing and optimizing various Python scripts
- Extending functionality of current software packages and testing to ensure compatibility with package dependency updates

## Projects

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### Solitaire Card Game (*Web Development*)

- Utilized basic HTML, CSS, and JavaScript to develop an initial UI and functionality for the game
- Transitioned to utilize React for front-end, and currently utilizing Express and MongoDB to develop back-end functionality

### Deployment and Orchestration Infrastructure (*Operating Systems*)

- Developed a TCP server written in C++ that communicated with multiple client nodes, allowing installation and configuration of multi-process applications
- Supported operations such as copying, moving, and running executables on client nodes. The user can also obtain resource usage and process state queries

## Skills

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**Proficient:** C++, Python, Java, Bash/UNIX, Git

**Familiar:** JavaScript, HTML, CSS, MATLAB

## Leadership

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### VandyHacks

Director of Communications (*Spring 2016-Present*)

Nashville, TN

December 2015 - Present

- Reaching out and maintaining connections with 15+ representatives of other schools and hackathons
- Maintaining various VandyHacks social media pages
- Marketing and publicizing VandyHacks to 10,000+ students and mentors nationwide
- Overseeing marketing campaigns that bring hundreds of students from other schools to VandyHacks
- Hosted 450+ attendees at VandyHacks IV

## Publications

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- Osti, N. C., Dyatkin, B., Thompson, M. W., **Tiet, F.**, Zhang, P., Dai, S., ... & Mamontov, E. (2017). Influence of humidity on performance and microscopic dynamics of an ionic liquid in supercapacitor. *Physical Review Materials*, 1(3), 035402.
- Osti, N. C., Van Aken, K. L., Thompson, M. W., **Tiet, F.**, Jiang, D., Cummings, P. T., Gogotsi, Y., Mamontov, E. (2016) Solvent Polarity Governs Ion Interactions and Transport in a Solvated Room-Temperature Ionic Liquid. *J. Phys. Chem. Lett.*, 2017, 8(1), 167–171